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Notice of Allowability	Application No.	Applicant(s)	
	10/813,778	MITA, KIYOSHI	
	Examiner	Art Unit	
	Luan V. Van	1753	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due cours	se. THIS
1. \boxtimes This communication is responsive to <u>Amendment filed Octo</u>	<u>ober 23, 2006</u> .		
2. The allowed claim(s) is/are <u>1,2,4-7 and 9-18</u> .			
 3. ☐ Acknowledgment is made of a claim for foreign priority unall all black blac	been received.		
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the 			
International Bureau (PCT Rule 17.2(a)).	Suments have been received in this f	iational stage application i	ioni ale
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the require	ments
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.		
(a) including changes required by the Notice of Draftspers		948) attached	
1) hereto or 2) to Paper No./Mail Date	•		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			() of
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5.	atent Application	
Notice of References Cited (P10-692) Notice of Draftperson's Patent Drawing Review (PT0-948)	6. ☐ Interview Summary		
	Paper No./Mail Dat 7. ☐ Examiner's Amendn		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	/. ∐ Examiner's Amendn	nent/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		ent of Reasons for Allowand	ce
	9. Other		
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DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

The instant invention is distinguished over the prior art of record by providing a method for manufacturing a mounting substrate wherein back face electrodes are arranged on the back surface of the mounting substrate in concentric patterns and wherein each back face electrodes of at least one of the concentric patterns is directly and electrically connected to four neighboring back face electrodes by separate respective plating wires extending from the back face electrode of the concentric pattern

The prior art of record neither teaches nor suggests a combination of limitations recited in the instant claims.

Tashiro teaches forming fine-line pattern 3, on wiring board 5, that electrically connect individual bonding pads 2 to one another through a die pad 1 (FIG. 1), Each bonding pad 2 includes a single fine-line pattern 3 connected to the die pad 1. Tashiro does not, however, disclose or suggest directly connecting a back face electrode to four neighboring back face electrodes using separate respective plating wires that extend from the back face electrode as recited in present claim 1. Instead, Tashiro only discloses a single fine line pattern 3 that extends from each bonding pad 2 to die pad 1.

Since the prior art of record neither teaches nor suggests the combination of steps recited in the instant claims, one skilled in the art would not have been motivated to perform the claimed process.

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Statement of Reasons for Allowance."

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan V. Van whose telephone number is 571-272-8521. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LVV

November 29, 2006

TECHNOLOGY CENTER 1700